

06/06/00
1c841 U.S. PTO

06 - 07 00

14

Please type a plus sign (+) inside this box → ☐

PTO/SB/05 (4/98)
Approved for use through 09/30/2000. OMB 0651-0032
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

UTILITY PATENT APPLICATION TRANSMITTAL <i>(Only for new nonprovisional applications under 37 C.F.R. § 1.53(b))</i>	Attorney Docket No.	12270-B
	First Inventor or Application Identifier	Curtis Lee Carrender
	Title	Distance/Ranging by Determination of RF..
	Express Mail Label No.	EK386615214US

APPLICATION ELEMENTS <i>See MPEP chapter 600 concerning utility patent application contents.</i>	ADDRESS TO: Assistant Commissioner for Patents Box Patent Application Washington, DC 20231
1. <input checked="" type="checkbox"/> * Fee Transmittal Form (e.g., PTO/SB/17) <i>(Submit an original and a duplicate for fee processing)</i> 2. <input checked="" type="checkbox"/> Specification <i>[Total Pages 21]</i> (preferred arrangement set forth below) - Descriptive title of the invention - Cross References to Related Applications - Statement Regarding Fed sponsored R & D - Reference to Microfiche Appendix - Background of the invention - Brief Summary of the invention - Brief Description of the Drawings (if filed) - Detailed Description - Claim(s) - Abstract of the Disclosure 3. <input checked="" type="checkbox"/> Drawing(s) (35 U.S.C. 113) <i>[Total Sheets 3]</i> 4. Oath or Declaration <i>[Total Pages 3]</i> a. <input checked="" type="checkbox"/> Newly executed (original or copy) b. <input type="checkbox"/> Copy from a prior application (37 C.F.R. § 1.63(d)) <i>(for continuation/divisional with Box 16 completed)</i> i. <input type="checkbox"/> DELETION OF INVENTOR(S) Signed statement attached deleting inventor(s) named in the prior application, see 37 C.F.R. §§ 1.63(d)(2) and 1.33(b).	5. <input type="checkbox"/> Microfiche Computer Program (Appendix) 6. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary) a. <input type="checkbox"/> Computer Readable Copy b. <input type="checkbox"/> Paper Copy (identical to computer copy) c. <input type="checkbox"/> Statement verifying identity of above copies
ACCOMPANYING APPLICATION PARTS 7. <input checked="" type="checkbox"/> Assignment Papers (cover sheet & document(s)) 8. <input type="checkbox"/> 37 C.F.R. § 3.73(b) Statement <input type="checkbox"/> Power of Attorney <i>(when there is an assignee)</i> 9. <input type="checkbox"/> English Translation Document (if applicable) 10. <input type="checkbox"/> Information Disclosure Statement (IDS)/PTO-1449 <input type="checkbox"/> Copies of IDS Citations 11. <input type="checkbox"/> Preliminary Amendment 12. <input checked="" type="checkbox"/> Return Receipt Postcard (MPEP 503) <i>(Should be specifically itemized)</i> 13. <input checked="" type="checkbox"/> * Small Entity Statement(s) <input type="checkbox"/> Statement filed in prior application, Status still proper and desired <i>(PTO/SB/09-12)</i> 14. <input type="checkbox"/> Certified Copy of Priority Document(s) <i>(if foreign priority is claimed)</i> 15. <input type="checkbox"/> Other:	
16. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment: <input type="checkbox"/> Continuation <input type="checkbox"/> Divisional <input type="checkbox"/> Continuation-in-part (CIP) of prior application No: _____ Prior application information: Examiner _____ Group / Art Unit: _____ For CONTINUATION or DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 4b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.	

17. CORRESPONDENCE ADDRESS <input type="checkbox"/> Customer Number or Bar Code Label <i>(Insert Customer No. or Attach bar code label here)</i> or <input checked="" type="checkbox"/> Correspondence address below					
Name	Stephen R. May (K1-53)				
	Battelle Memorial Institute				
Address	P.O. Box 999				
City	Richland	State	WA	Zip Code	99352
Country	U.S.A.	Telephone	(509) 375-2387	Fax	(509) 375-4487

Name (Print/Type)	Stephen R. May	Registration No. (Attorney/Agent)	29,255
Signature	<i>Stephen R. May</i>	Date	June 6, 2000

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Box Patent Application, Washington, DC 20231.

06/06/00
Jc841 U.S. PTO

FEE TRANSMITTAL For FY 2000		Complete If Known																																																																																																																					
Patent fees are subject to annual revision.		Application Number	Not Assigned																																																																																																																				
Small Entity payments <u>must</u> be supported by a small entity statement,		Filing Date	Herewith																																																																																																																				
otherwise large entity fees must be paid. See Forms PTO/SB/09-12.		First Named Inventor	Carrender																																																																																																																				
See 37 C.F.R. §§ 1.27 AND 1.28.		Examiner Name	Not Assigned																																																																																																																				
TOTAL AMOUNT OF PAYMENT (\$)		Group/Art Unit	Not Assigned																																																																																																																				
504.00		Attorney Docket No.	12270-B																																																																																																																				
METHOD OF PAYMENT (check one)		FEE CALCULATION (continued)																																																																																																																					
<p>1. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge indicated fees and credit any overpayments to:</p> <p>Deposit Account Number: 02-1275</p> <p>Deposit Account Name: Battelle Memorial Institute - PND</p> <p><input checked="" type="checkbox"/> Charge Any Additional Fee Required Under 37 CFR §§ 1.16 and 1.17</p> <p>2. Payment Enclosed: <input type="checkbox"/> check <input type="checkbox"/> Money Order <input type="checkbox"/> Other </p>		<p>3. ADDITIONAL FEES</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Large Entity Fee</th> <th>Small Entity Fee</th> <th>Fee Description</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr> <td>105 130</td> <td>205 65</td> <td>Surcharge- late filing fee or oath</td> <td></td> </tr> <tr> <td>127 50</td> <td>227 25</td> <td>Surcharge- late provisional filing fee or cover sheet</td> <td></td> </tr> <tr> <td>139 130</td> <td>139 130</td> <td>Non-English specification</td> <td></td> </tr> <tr> <td>147 2,520</td> <td>147 2,520</td> <td>For filing a request for reexamination</td> <td></td> </tr> <tr> <td>112 920*</td> <td>112 920*</td> <td>Requesting publication of SIR prior to Examiner action</td> <td></td> </tr> <tr> <td>113 1,840*</td> <td>113 1,840*</td> <td>Requesting publication of SIR after Examiner action</td> <td></td> </tr> <tr> <td>115 110</td> <td>215 55</td> <td>Extension for reply within first month</td> <td></td> </tr> <tr> <td>116 380</td> <td>216 190</td> <td>Extension for reply within second month</td> <td></td> </tr> <tr> <td>117 870</td> <td>217 435</td> <td>Extension for reply within third month</td> <td></td> </tr> <tr> <td>118 1,360</td> <td>218 680</td> <td>Extension for reply within forth month</td> <td></td> </tr> <tr> <td>128 1,850</td> <td>228 925</td> <td>Extension for reply within fifth month</td> <td></td> </tr> <tr> <td>119 300</td> <td>219 150</td> <td>Notice of Appeal</td> <td></td> </tr> <tr> <td>120 300</td> <td>220 150</td> <td>Filing a brief in support of an appeal</td> <td></td> </tr> <tr> <td>121 260</td> <td>221 130</td> <td>Requesting for oral hearing</td> <td></td> </tr> <tr> <td>138 1,510</td> <td>138 1,510</td> <td>Petition to institute a public use proceeding</td> <td></td> </tr> <tr> <td>140 110</td> <td>240 55</td> <td>Petition to revive – unavoidable</td> <td></td> </tr> <tr> <td>141 1,210</td> <td>241 605</td> <td>Petition to revive – unintentional</td> <td></td> </tr> <tr> <td>142 1,210</td> <td>242 605</td> <td>Utility issue fee (or reissue)</td> <td></td> </tr> <tr> <td>143 430</td> <td>243 215</td> <td>Design issue fee</td> <td></td> </tr> <tr> <td>144 580</td> <td>224 290</td> <td>Plant issue fee</td> <td></td> </tr> <tr> <td>122 130</td> <td>122 130</td> <td>Petitions to the Commissioner</td> <td></td> </tr> <tr> <td>123 50</td> <td>123 50</td> <td>Petitions related to provisional applications</td> <td></td> </tr> <tr> <td>126 240</td> <td>126 240</td> <td>Submission of Information Disclosure Stmt</td> <td></td> </tr> <tr> <td>581 40</td> <td>581 40</td> <td>Recording each patent assignment per property (times number of properties)</td> <td></td> </tr> <tr> <td>146 690</td> <td>246 345</td> <td>Filing a submission after final rejection (37 CFR § 1.129(a))</td> <td></td> </tr> <tr> <td>149 690</td> <td>249 345</td> <td>For each additional invention to be examined (37 CFR § 1.129(b))</td> <td></td> </tr> <tr> <td colspan="2">Other fee (specify)</td> <td></td> <td></td> </tr> <tr> <td colspan="2">Other fee (specify)</td> <td></td> <td></td> </tr> </tbody> </table>		Large Entity Fee	Small Entity Fee	Fee Description	Fee Paid	105 130	205 65	Surcharge- late filing fee or oath		127 50	227 25	Surcharge- late provisional filing fee or cover sheet		139 130	139 130	Non-English specification		147 2,520	147 2,520	For filing a request for reexamination		112 920*	112 920*	Requesting publication of SIR prior to Examiner action		113 1,840*	113 1,840*	Requesting publication of SIR after Examiner action		115 110	215 55	Extension for reply within first month		116 380	216 190	Extension for reply within second month		117 870	217 435	Extension for reply within third month		118 1,360	218 680	Extension for reply within forth month		128 1,850	228 925	Extension for reply within fifth month		119 300	219 150	Notice of Appeal		120 300	220 150	Filing a brief in support of an appeal		121 260	221 130	Requesting for oral hearing		138 1,510	138 1,510	Petition to institute a public use proceeding		140 110	240 55	Petition to revive – unavoidable		141 1,210	241 605	Petition to revive – unintentional		142 1,210	242 605	Utility issue fee (or reissue)		143 430	243 215	Design issue fee		144 580	224 290	Plant issue fee		122 130	122 130	Petitions to the Commissioner		123 50	123 50	Petitions related to provisional applications		126 240	126 240	Submission of Information Disclosure Stmt		581 40	581 40	Recording each patent assignment per property (times number of properties)		146 690	246 345	Filing a submission after final rejection (37 CFR § 1.129(a))		149 690	249 345	For each additional invention to be examined (37 CFR § 1.129(b))		Other fee (specify)				Other fee (specify)			
Large Entity Fee	Small Entity Fee	Fee Description	Fee Paid																																																																																																																				
105 130	205 65	Surcharge- late filing fee or oath																																																																																																																					
127 50	227 25	Surcharge- late provisional filing fee or cover sheet																																																																																																																					
139 130	139 130	Non-English specification																																																																																																																					
147 2,520	147 2,520	For filing a request for reexamination																																																																																																																					
112 920*	112 920*	Requesting publication of SIR prior to Examiner action																																																																																																																					
113 1,840*	113 1,840*	Requesting publication of SIR after Examiner action																																																																																																																					
115 110	215 55	Extension for reply within first month																																																																																																																					
116 380	216 190	Extension for reply within second month																																																																																																																					
117 870	217 435	Extension for reply within third month																																																																																																																					
118 1,360	218 680	Extension for reply within forth month																																																																																																																					
128 1,850	228 925	Extension for reply within fifth month																																																																																																																					
119 300	219 150	Notice of Appeal																																																																																																																					
120 300	220 150	Filing a brief in support of an appeal																																																																																																																					
121 260	221 130	Requesting for oral hearing																																																																																																																					
138 1,510	138 1,510	Petition to institute a public use proceeding																																																																																																																					
140 110	240 55	Petition to revive – unavoidable																																																																																																																					
141 1,210	241 605	Petition to revive – unintentional																																																																																																																					
142 1,210	242 605	Utility issue fee (or reissue)																																																																																																																					
143 430	243 215	Design issue fee																																																																																																																					
144 580	224 290	Plant issue fee																																																																																																																					
122 130	122 130	Petitions to the Commissioner																																																																																																																					
123 50	123 50	Petitions related to provisional applications																																																																																																																					
126 240	126 240	Submission of Information Disclosure Stmt																																																																																																																					
581 40	581 40	Recording each patent assignment per property (times number of properties)																																																																																																																					
146 690	246 345	Filing a submission after final rejection (37 CFR § 1.129(a))																																																																																																																					
149 690	249 345	For each additional invention to be examined (37 CFR § 1.129(b))																																																																																																																					
Other fee (specify)																																																																																																																							
Other fee (specify)																																																																																																																							
<p>1. BASIC FILING FEE</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Large Entity Fee</th> <th>Small Entity Fee</th> <th>Fee Description</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr> <td>101 690</td> <td>201 345</td> <td>Utility filing fee</td> <td>345</td> </tr> <tr> <td>106 310</td> <td>206 155</td> <td>Designing filing fee</td> <td></td> </tr> <tr> <td>107 480</td> <td>207 240</td> <td>Plant filing fee</td> <td></td> </tr> <tr> <td>108 690</td> <td>208 345</td> <td>Reissue filing fee</td> <td></td> </tr> <tr> <td>114 150</td> <td>214 75</td> <td>Provisional filing fee</td> <td></td> </tr> </tbody> </table> <p style="text-align: right;">SUBTOTAL (1) (\$) 345</p>		Large Entity Fee	Small Entity Fee	Fee Description	Fee Paid	101 690	201 345	Utility filing fee	345	106 310	206 155	Designing filing fee		107 480	207 240	Plant filing fee		108 690	208 345	Reissue filing fee		114 150	214 75	Provisional filing fee																																																																																															
Large Entity Fee	Small Entity Fee	Fee Description	Fee Paid																																																																																																																				
101 690	201 345	Utility filing fee	345																																																																																																																				
106 310	206 155	Designing filing fee																																																																																																																					
107 480	207 240	Plant filing fee																																																																																																																					
108 690	208 345	Reissue filing fee																																																																																																																					
114 150	214 75	Provisional filing fee																																																																																																																					
<p>2. EXTRA CLAIM FEES</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Large Entity Fee</th> <th>Small Entity Fee</th> <th>Fee Description</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr> <td>103 18</td> <td>203 9</td> <td>Claims in excess of 20</td> <td></td> </tr> <tr> <td>102 78</td> <td>202 39</td> <td>Independent claims in excess of 3</td> <td></td> </tr> <tr> <td>104 260</td> <td>204 130</td> <td>Multiple dependent claim, if not paid</td> <td></td> </tr> <tr> <td>109 78</td> <td>209 39</td> <td>**Reissue independent claims over original patent</td> <td></td> </tr> <tr> <td>110 18</td> <td>210 9</td> <td>**Reissue claims in excess of 20 and over original patent</td> <td></td> </tr> </tbody> </table> <p style="text-align: right;">SUBTOTAL (2) (\$) 159.00</p>		Large Entity Fee	Small Entity Fee	Fee Description	Fee Paid	103 18	203 9	Claims in excess of 20		102 78	202 39	Independent claims in excess of 3		104 260	204 130	Multiple dependent claim, if not paid		109 78	209 39	**Reissue independent claims over original patent		110 18	210 9	**Reissue claims in excess of 20 and over original patent																																																																																															
Large Entity Fee	Small Entity Fee	Fee Description	Fee Paid																																																																																																																				
103 18	203 9	Claims in excess of 20																																																																																																																					
102 78	202 39	Independent claims in excess of 3																																																																																																																					
104 260	204 130	Multiple dependent claim, if not paid																																																																																																																					
109 78	209 39	**Reissue independent claims over original patent																																																																																																																					
110 18	210 9	**Reissue claims in excess of 20 and over original patent																																																																																																																					
		<p>*Reduced by Basic Filing Fee Paid</p> <p style="text-align: right;">SUBTOTAL (3) (\$) 159.00</p>																																																																																																																					

SUBMITTED BY		Complete (if applicable)	
Name (Print/Type)	Stephen R. May	Registration No. (Attorney/Agent)	29,255
Signature	<i>Stephen R. May</i>	Telephone	(509) 375-2387
		Date	June 6, 2000

SENT TO: Assistant Commissioner for Patents, Washington, DC 20231.

EXPRESS MAIL MAILING LABEL #EK386615214US

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Curtis Lee Carrender

For: DISTANCE/RANGING BY
DETERMINATION OF RF
PHASE DELTA

Our Ref. No: 12270-B

Date: June 5, 2000

CERTIFICATE OF MAILING

Box PATENT APPLICATION
Commissioner of Patents and Trademarks
Washington, DC 20231

Dear Sir:

The undersigned hereby certifies that the attached:

- ☒ [X] Patent Application of _____ pages, and
- ☒ [X] Drawings of _____ Sheets
- ☒ [X] Fee Transmittal (2 ea.)
- ☒ [X] Assignment / Cvr. Sheet
- ☒ [X] Combined Declaration and Power of Attorney
- ☒ [X] Small Entity
- ☐ [] Information Disclosure
- ☐ [] with attachments

are being deposited with the United States Postal Service as:

- ☐ [] First Class Mail
- ☒ [X] Express Mail - Label #EK386615214US in an envelope addressed to the Commissioner of Patents and Trademarks, Washington, D.C. 20231, on the date set forth below.

Janice K. Laybourn
signature

June 6, 2000
Date Deposited

Janice K. Laybourn K1-53
Intellectual Property Services
Battelle Memorial Institute
Pacific Northwest Laboratories
P.O. Box 999
Richland, WA 99352
(509) 375-2655

00588988-060600